

Title: MATERIALS AND METHODS RELATING TO
THERAPY AND DIAGNOSIS USING TARGETING OF CELLS
THAT EXPRESS JPL POLYPEPTIDES

Applicants: Peter C.R. Emtage et al.

Docket No.: NUVO-05

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GCCCCAGCAGGCTCTCCAGTCCCAGGATGCGCTGAGCCGCCGGGGGGCTGAGGCCGCGCCAACTACATG
CATGTCCCCCGGGGGCAAGTTCGACTTTGACGACGGGGGTGCTACGTGGGGGGCTGGGAGGCGGGGCGG
GCACATGGCTACGGCGTGTGCACGGGCCCCGGCGCCAGGGCGAGTACAGCGGCTGCTGGGCACACGGCT
TCGAGTCAC'TGGGCGTCTTACGGGGCCCCGGCGACACAGCTACCAGGGCCACTGGCAGCAGGGCAAGCG
CGAAGGGCTGGGCGTGGAGCGCAAGAGCCGCTGGACGTACCGCGGCGAGTGGCTGGGCGGGCTGAAGGGG
CGCAGCGGCGTGTGGGAAAGCGTGTCCGGCCTGCGCTACGCCGGGCTCTGGAAGGACGGTTTCCAGGACG
GCTACGGCACTGAGACCTACTCCGACGGAGGCACCTACCAGGGCCAGTGGCAGGCCGGGAAGCGCCACGG
CTACGGGGTACGCCAGAGTGTGCCCTACCATCAGGCGGCGCTGCTGCGCTCGCCCCGCCGCACCTCCCTG
GATTCGCGCCACAGCGACCCCCGACGCCACCCCCGCCCCCTGCCCTTGCCGGGCGACGAGGGAGGCAGCC
CCGCTTCGGGCTCCCGGGGCGGCTTCGTGCTGGCCGGGCCCCGGGACGCCGACGGCGCTCGTCCCCGAAA
GCGCACTCCGGCGGCGGCGGATTCTTTCGCGCTTCGCTGCTGCTCAGCGGGCTCCGAGCGGGCGGACGT
CGCAGCTCCCTGGGCAGCAAGCGAGGCTCCCTGCGCAGCGAGGTGAGCAGCGAGGTGGGCAGCACCGGAC
CGCCCCGCTCGGAGGCCAGCGGGCCCCCGCCGACGCGCCGCCCTCATCGAGGGCTCGGCCACAGA
GGTGTACGCGGGCGAGTGGCGCGCAGATCGGCGCAGCGGCTTCGGCGTCAGCCAGCGCTCCAACGGGCTG
CGCTACGAGGGCGAGTGGCTGGGCAACCGGCGGCACGGCTACGGGCGCACCAACCGCCCCGACGGCTCCC
GCGAGGAGGGCAAGTACAAGCGCAACCGGCTGGTGCACGGCGGGCGCTCCGAGTCTCCTGCCTCTGGC
CCTTCGGCGGGGCAAGGTTAAGGAGAAGGTGGACAGGGCTGTGAGGGCGCCCCGTCGAGCCGTGAGTGCT
GCCCCGTCAGCGCCAGGAGATCGCCGCTGCCAGGCGACGAGACGCCCTCCTAAAGGCAGTGGCAGCCAGCA
GTGTGCTGAGAAGGCCGTGGAGGCAGCTCGAATGGCCAAACTGATAGCCAGGACCTGCAGCCCATGCT
AGAGGCCCCAGGCCGACAGCCAGGCAGGACTCAGAAGGTTCCGACACGGAGCCCCCTGGATGAGGACAGC
CCTGGGGTATATGAGAACGGACTGACCCCCCAGAGGGATCCCCGAACTGCCAGCAGTCTCTGCCTCCT
CCCCCAACCTTGGCGACCCCCCTGCCTGCCGAGCCCACTGCCTCCTGGAGGGGACCAGGGTCCCTTCTC
CAGCCCCAAAGCTTGGCCTGAGGAGTGGGGGGGGGAGGCGCACAGGCAGAGGAAGTGGCTATGAG
GCTGAGGATGAGGCTGGGATGCAAGGGCCAGGGCCAGAGACGGTTCCCCACTCCTCGAGGCTGCAGCG
ACAGTTCAGGAAGTCTTCGAGAGGAGGAGGGGGAGATGAAGAGCCCCCTGCCCCCGCTGAGGGCCCCAGC
AGGCACGGAGCCTGAGCCCATCGCCATGCTGGTCTGAGGGGCTCGTCTCGAGGGGTCTGATGCTGGG
TGCTTGACAGAAGAGCTCGGGGAGCCCCGCTGCAACCGAGAGGCTGCCAGCCGGGAGCTGCCAACCCCC
TGGTGGTGGGAGCCGTGGCCCTCCTGGACCTCAGCCTGGCATTCTGTCTCCAGCTCCTCACCTGAGG
CTACTTCTTGGCTGTGTTCTGGCTTTGGTTGCGTGCCTCTTACCCCTTTGACCTGCCTTTTTTCTCTTC
TCCTCTTCTTGGCTGTGTTTCTCTATCTTTCTTTCTCTTCTTCTTCTTCTTCTTCTGTGCTCCTTTGTTT
TTTTCTCTCGCTTTTTTCTTTCCCTGTCTTCTTTCAGATTATCTCATTCTTCTTCTGATCTGTCTCTGTATT
CCTCACTCCCTTCCCCATCCCAACCCCTTCTTTCTCTAGATTGTTTACATATGAAGGGCTTTTCTCTCTC
AGAGTTGCTGTCTTCTCTGAGACACACAAATCTAAGTCAGACCATTGCTCCACGCCCTCCACCTTTTCT
TTAGACCTCAACTTCGCTGCGGGTGGGGGTTTGGTGTCTTAAGGAGACTCCTGGAAGCTGAATGGAGAGG
AGGAAGAAAATGAAGAAGGAGTGATTGAATGTCGGGCAAGGCACTGGCTGAGCTGCTGTGGCTCCCTAGC
CTAAGGGGCCCTGCTGTCCCTCTGAGGCCCTAGTGAAAAAGCTGCAGGAGGTGCATCCTCCACCTCTAATCT
TGGAGGCTATTATCTTACCTCCAAGCACTGAGCTGGGTACTGCCCAATTCATCCTTCCCTGAAGGAGA
GAAGGGAAGTGAAGAAGTAGAGTAAGTCCCCAGCATTTCCTCTTTTCTCTCCTCATCGGCCAGCCCCCTCCT
CCAGCCCCCTCTGGTGGCATGCCATGCCAAGAGCAACGTGTAAAGGAACAGAGAATATCCAATGCAGTCA
AGTCCACCTTGCCAGACTTTGCCACTGACTTCTCCCAACCTTCTGTCTCCCCCATAATAGTTTATTTGG
TTGGTCTGGACTCACTTGTGGCCTTTGATTAAATTCCTAAGGGGCTGAAGAAGACATTTCTACTGCAGA
GGGTAGAGGCACTTGAGCAAGGCCCCCACATCCCAACTCTGGGAGTTGTGGTGGGAGGAGGCACTTCTG
GGGATAGGACCAGACAAGATAACAGGAGCTCACATGGAAGCAGAAGCTGTGACAAGTTTAGTAGTCCCA
AAATGGGTTATATCCCTTCCCTCTGTCGCGAATTCTTGCCCTCGAGGGCCAAAT

FIGURE 1

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MSPGGKFDFDDGGCYVGGWEAGRAHGYGVCTGPGAQGEYSGCWAHGFESL	50
GVFTGPGGHSYQGHWQQKREGLGVERKSRTYRGEWLGGGLKGRSGVWES	100
VSGLRYAGLWKDGFQDGYGTETYSDDGGTYQGQWQAGKRHGYGVRQSVPYH	150
QAALLRSPRRTSLDSGHSDPPTPPPPLPLPGDEGGSPASGSRGGFVLAGP	200
GDADGASSRKRTPAAGGFFRRSLLLSGLRAGGRRSSLGSKRGLRSEVSS	250
EVGSTGPPGSEASGPPAAAPPALIEGSATEVYAGEWRADRRSGFGVSQRS	300
NGLRYEGEWLGNRRHGYGRTRPDGSREEGKYKRNRLVHGGRVRSLLPLA	350
LRRGKVKEKVDRAVEGARRAVSAARQRQETAAARAADALLKAVAASSVAE	400
KAVEAARMAKLI AQDLQPMLEAPGRRPRQDSEGSDTEPLDEDSPGVYENG	450
LTPSEGSPELPSSPASSRQPWRPPACRSPLPPGGDQGPFS SPKAWPEEWG	500
GAGAQAEEELAGYEADEAGMQGPGRDGSPLLGGCSDSSGSLREEEGEDE	550
EPLPPLRAPAGTEPEPIAMLVLRGSSSRGPDAGCLTEELGEPATERPAQ	600
PGAANPLVVGAVALLDLSLAFLFSQLLT	629

FIGURE 2

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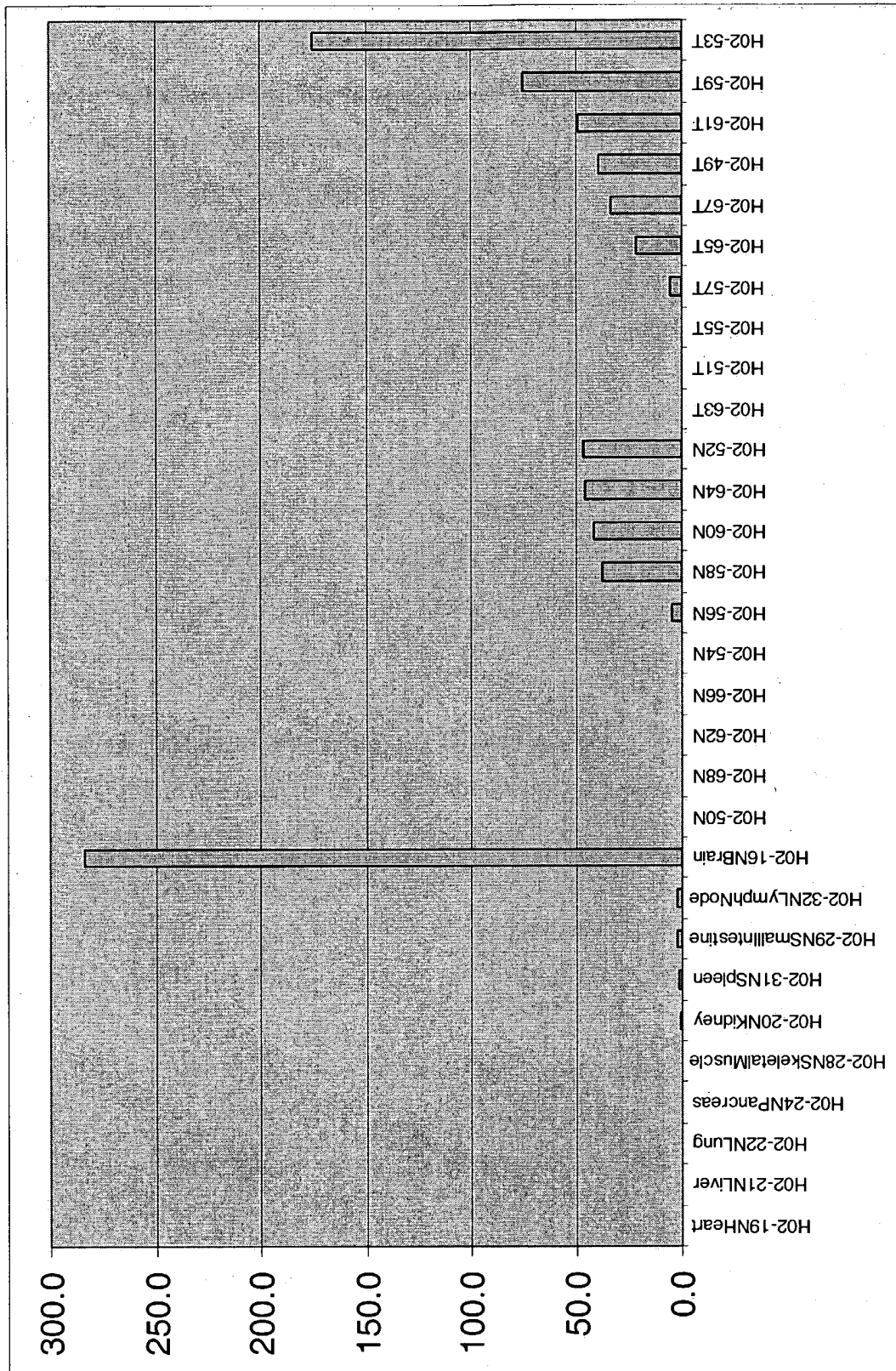


FIGURE 4